INTRADEPARTMENTAL COMMUNICATION

(Please confine to one subject)

STATE CONSERVATION COMMISSION - DES MOINES, IOWA

TO Area and District Foresters DATE July 19, 1984

FROM Roy G. Hatcher

SUBJECT: Pest Survey Summary

Attached is a summary of the June observation on the pest survey plots. A final report will be sent out after the August report comes in.

RGH:kip
cc: Forestry Staff
Ext. Ent.
Ext. Path.
USFS-St. Paul

PEST SURVEY SAMPLE PLOTS-JUNE 1984

CONIFER PLANTATIONS

Total number of acres included in survey = 377.3

Major pests:

Winter burn - 50.2 acres, 13.3% of trees-especially Scotch Pine
Deer damage - 21.7 acres, 5.75% of the conifers-especially White Pine
European pine sawfly - 13.2 acres, 3.5% of conifers-little damage, mostly Scotch and Red Pine
Poor management-lack of grass or weed control, 7.5% of conifer area-serious problem.

Minor pests or Major pests in small quantity:

aphids
pine needle scale
larch sawfly
White Pine weevil
Ips beetles
flatheaded borers

Dothistroma Needlecast
Brown Spot Needle blight
Lophodermium Needlecast
Rhizosphoera Needlecast
Diplodia Shoot blight
Pine Needle Rust

MIXED HARDWOOD PLANTATIONS

Total number of acres included in survey = 221

Major Pests:

Deer damage-16.7 acres, 8% of trees-many of the affected trees were killed or seriously damaged.
Anthracnose-40.5 acres, 18% of trees-generally not too severe.
Oak Wilt- found in one nine year old Red Oak plantation. This is the first time ever reported in a young plantation.
Poor Management-lack of weed control affected at least seven acres, or 3% of area.

Minor Pests:

ash rust
shoot borer
aphids
slug sawfly
winter damage
flooding
herbicide drift

WALNUT PLANTATIONS

Total acres included in survey - 245

Major Problems:
Anthracnose-76 acres, 31% of trees-widespread, but generally not severe.
Deer damage-9.5 acres, 4% of trees-Quite severe in some plantations.

Other Locally Serious Problems:

lack of weed and grass control
chemical drift
walnut dieback
beaver
shoot moth
butternut curculio

Minor Problems:

leafhoppers
downy leafspot
aphids
flooding
winter dieback

WOODLANDS

Total number of acres included in survey - 3665

Major Pests:

Oak Wilt-100 acres, 2.7% of area-Reported on pest plots in nine of the 12 districts, on 17 of the approximately 60 plots. It seemed to be quite active this year.

Minor Pests:

"Oak leaf deformation"-99 acres, 2.7% of woodland area affected. This mostly occurred in the northeast quarter of the state, on White and Bur Oak. It affected 21% of the woodland sample area in the three northeastern districts (1,2, and 3) where it was reported. The problem is unusual, but not serious.
Anthracnose-140acres, 3.8% of area-mostly on White or Bur Oak, but also on Hickory, Elm, Ash, and Walnut.
Weather damage-drought stress and flooding
Elm leaf minor
Cedar-Hawthorne Rust
Aphids
Lecanium scale
Linden looper
Elm Leaf beetle
Various leafspots, minor defoliators, and gallmakers

WOODLANDS cont.

Major Pests in Small Quantity:

Oak dieback
Ash dieback
Butternut decline
Dutch Elm disease
Armillaria root rot

WINDBREAKS

Total number of windbreaks sampled=56

Major Pests:

Dothistroma needle blight-on Austrian Pine-13 windbreaks-damage ranged from slight to severe.
Honeysuckle aphid-6 windbreaks of the 56 sampled

Other Hardwood Problems:

Winter dieback
Anthracnose
Ash rust
Elm leaf beetle
Leaf feeding on ash
Aphids
Maple leafspot
Ash borer
Cankers on hybrid poplar

Other Conifer Problems:

Winter burn
Rhizosphaera needlecast on spruce
Swiss needlecast on Concolor fir
Lophodermium needlecast
Diplodia shoot blight
Unidentified cankers on concolor fir
Cytospora on Spruce
Spider mites
Spruce needleminer
European Pine Sawfly